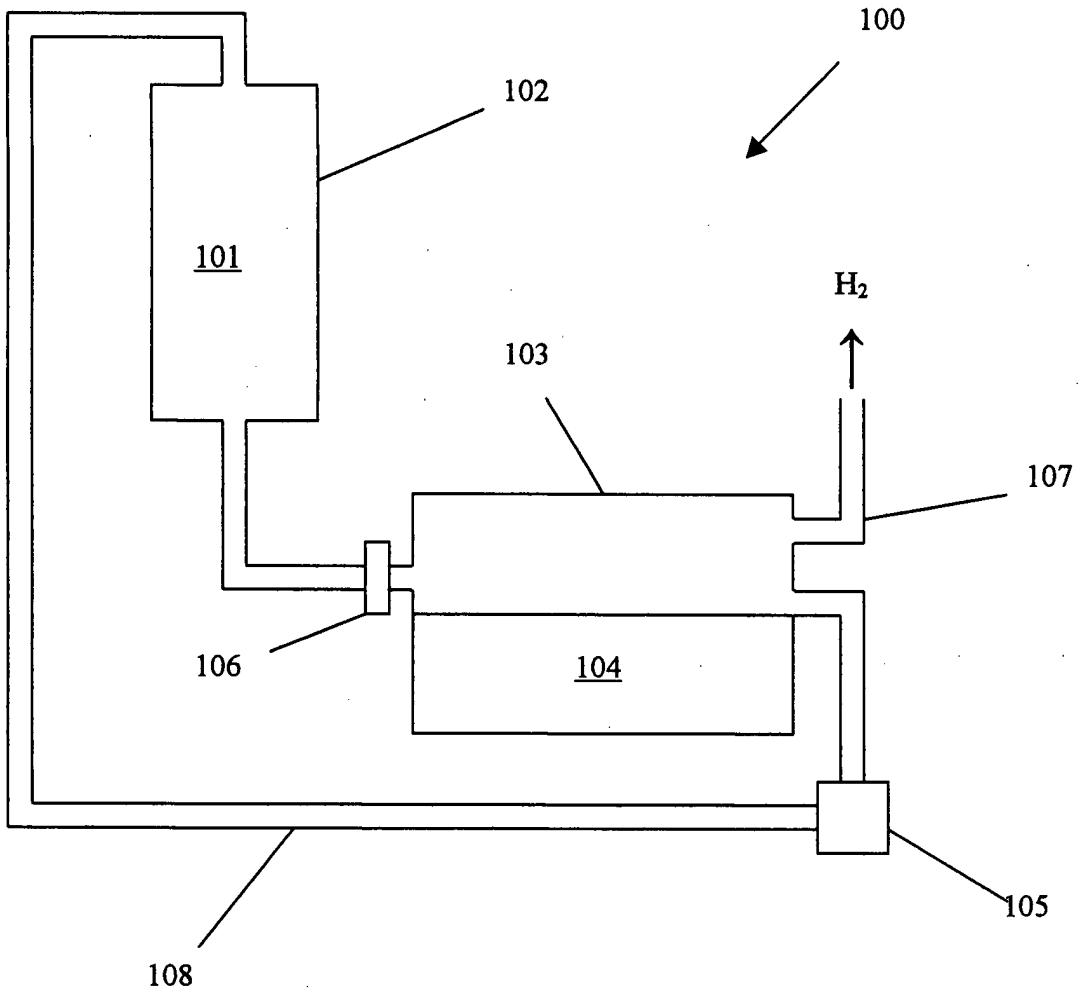

FIG. 1

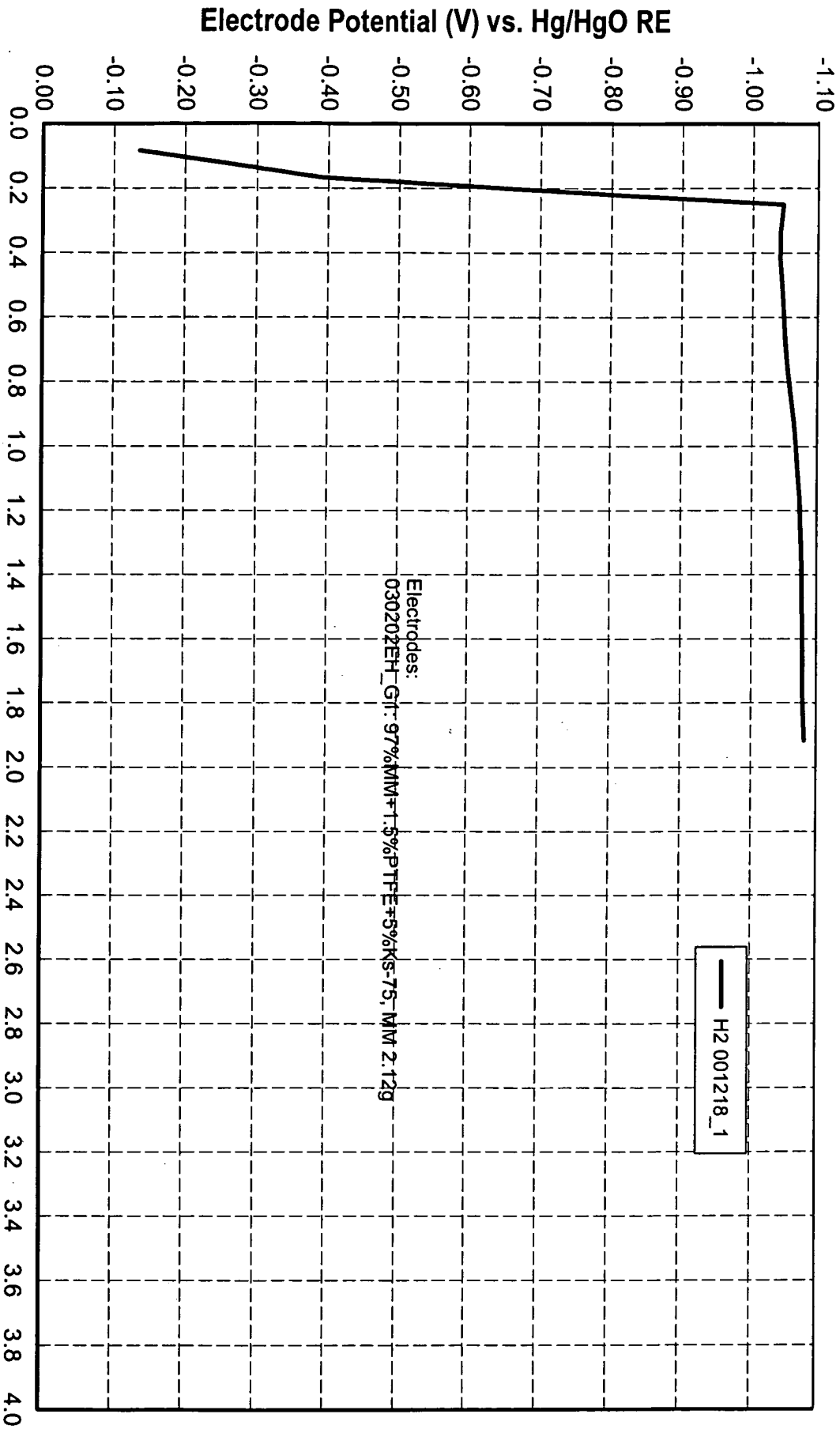
Electrode Potential (V) vs. Hg/HgO RE
-1.10
-1.00
-0.90
-0.80
-0.70
-0.60
-0.50
-0.40
-0.30
-0.20
-0.10
0.00
0.0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4 2.6 2.8 3.0 3.2 3.4 3.6 3.8 4.0
Activation Time (hours)
H2 001218_1
Electrodes:
030202EH_Gr: 97%MM+1.5%PTFE+5%Ks-75; MM 2.12g

FIG. 2

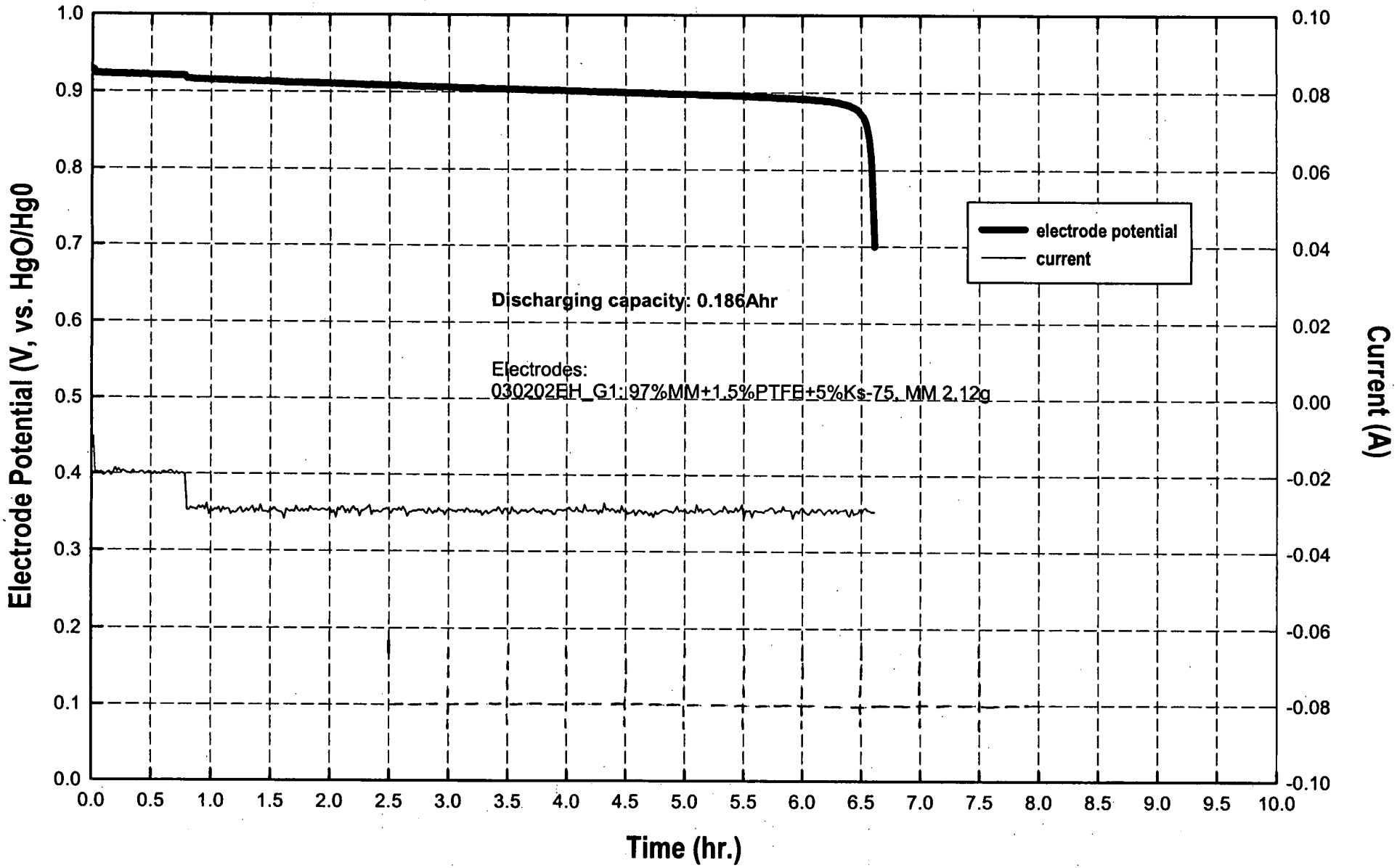
Electrode Potential (V, vs. HgO/Hg0
Current (A)
Time (hr.)
electrode potential
current
Discharging capacity: 0.186Ahr
Electrodes:
030202EH_G1: 97%MM+1.5%PTFE+5%Ks-75, MM 2.12g

FIG. 3

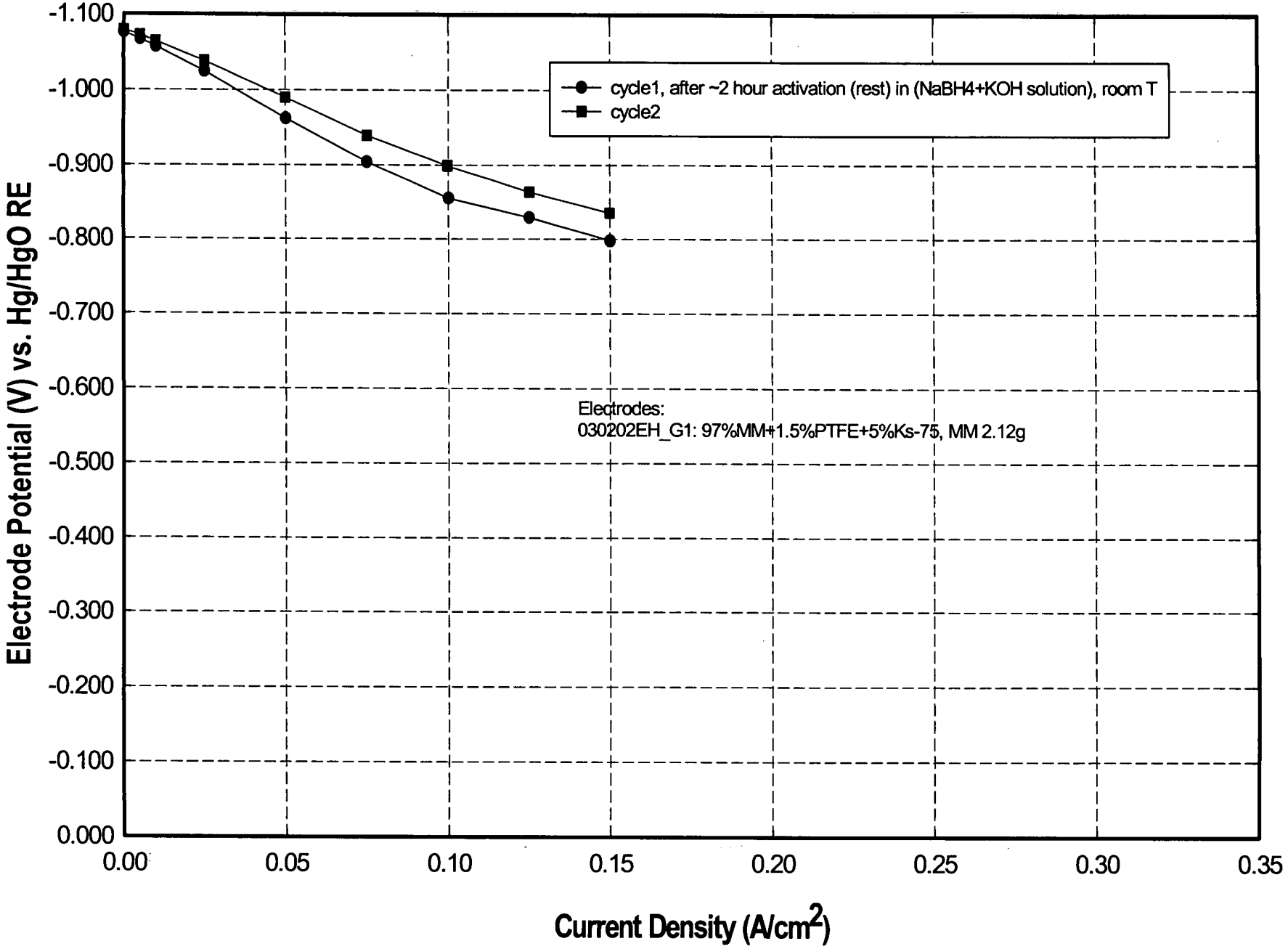
-1.100
-1.000
-0.900
-0.800
-0.700
-0.600
-0.500
-0.400
-0.300
-0.200
-0.100
0.000
Electrode Potential (V) vs. Hg/HgO RE
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
Current Density (A/cm2)
cycle1, after ~2 hour activation (rest) in (NaBH4+KOH solution), room T
cycle2
Electrodes:
030202EH_G1: 97%MM+1.5%PTFE+5%Ks-75, MM 2.12g

FIG. 4

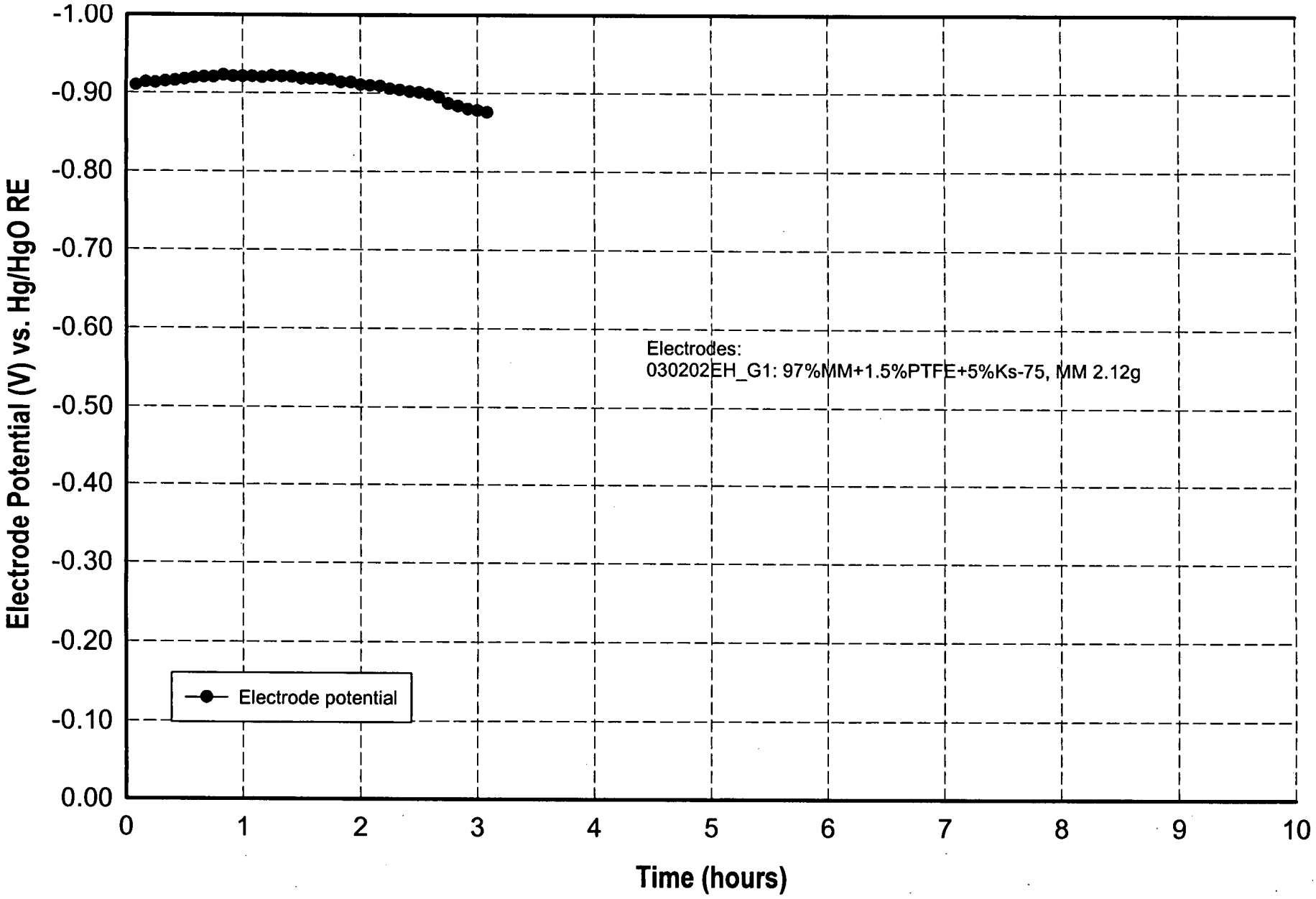
-1.00
-0.90
-0.80
-0.70
-0.60
-0.50
-0.40
-0.30
-0.20
-0.10
0.00
Electrode Potential (V) vs. Hg/HgO RE
0
1
2
3
4
5
6
7
8
9
10
Time (hours)
Electrodes:
030202EH_G1: 97%MM+1.5%PTFE+5%Ks-75, MM 2.12g
Electrode potential

FIG. 5